

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1.-7. (CANCELLED)

8.(NEW) An information recording apparatus which irradiates a laser light on a recording medium and forms a recording mark corresponding to a recording signal, comprising:

a light source which emits the laser light; and

a signal generating unit which generates a recording pulse signal driving the light source based on the recording signal,

wherein the recording pulse signal has a mark period for forming the recording mark and a space period for forming no recording mark,

wherein the recording pulse signal has off levels lower than a bias power level in an entire space period equal to or smaller than a predetermined length and a part of a space period larger than the predetermined length, and

wherein the recording pulse signal has the off level immediately before a mark period subsequent to the space period larger than the predetermined length.

9.(NEW) The information recording apparatus according to claim 8, wherein the recording pulse signal has the off level at a front end portion of the space period larger than the predetermined length.

10.(NEW) The information recording apparatus according to claim 8, wherein the predetermined length is a shortest space length.

11.(NEW) The information recording apparatus according to claim 8, wherein the off level is a level at which the laser pulse is not emitted from the light source.

12.(NEW) The information recording apparatus according to claim 8, wherein a front end portion of the mark period subsequent to the space period equal to or smaller than the predetermined length is located behind a front end portion of the mark period subsequent to the space period larger than the predetermined length for each mark period of a same length.

13.(NEW) An information recording method which irradiates a laser light on a recording medium and forms a recording mark corresponding to a recording signal, comprising:

a signal generation process which generates a recording pulse signal based on the recording signal; and

an irradiation process which irradiates a laser pulse on the recording medium based on the recording pulse signal,

wherein the recording pulse signal has a mark period for forming the recording mark and a space period for forming no recording mark,

wherein the recording pulse signal has off levels lower than a bias power level in an entire space period equal to or smaller than a predetermined length and a part of a space period larger than the predetermined length, and

wherein the recording pulse signal has the off level immediately before a mark period subsequent to the space period larger than the predetermined length.